

Figure 3

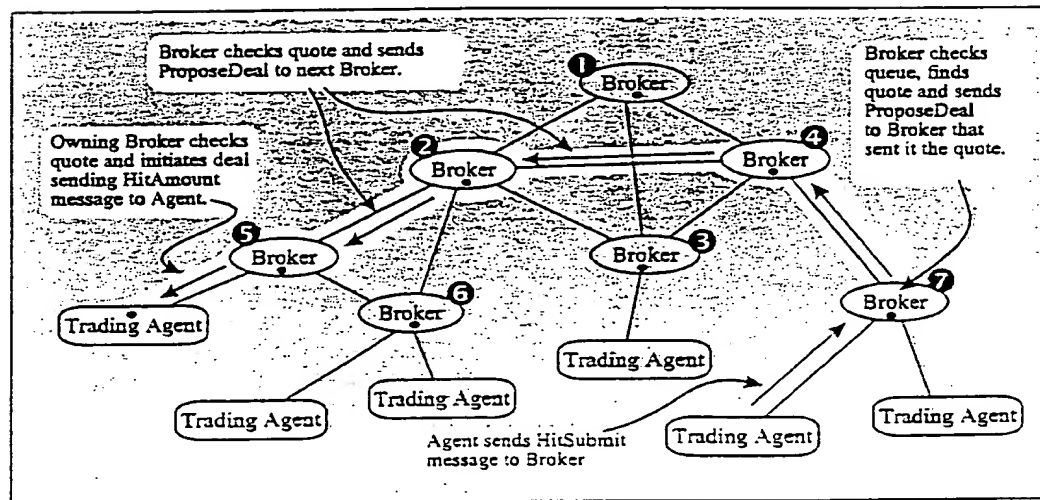


Figure 4

Broker received information in the previous ProposeDeal message.

Every Broker receives the new quote information.

Broker modifies quote, sends MarketUpdate to all Brokers that don't have the information.

Diagram illustrating the dissemination of market information in a distributed system. The diagram shows a network of 7 Brokers and 6 Trading Agents. The process is numbered 1 through 7:

- Broker 1 receives information.
- Broker 1 sends information to Broker 2.
- Broker 2 sends information to Broker 3 and Broker 5.
- Broker 3 sends information to Broker 4.
- Broker 4 sends information to Broker 6 and Broker 7.
- Broker 5 sends information to Broker 6.
- Broker 6 sends information to its two Trading Agents.

Broker 3 also has a Trading Agent, and Broker 7 has two Trading Agents.

The diagram illustrates the sequence of messages in a distributed transaction protocol involving seven brokers (1-7) and trading agents. The sequence is as follows:

- Broker 1** sends **ProposeDeal** to **Broker 2**, **Broker 3**, **Broker 4**, and **Broker 7**.
- Broker 2** sends **ProposeDeal** to **Broker 5** and **Broker 6**.
- Broker 3** sends **ProposeDeal** to **Broker 4**.
- Broker 4** sends **ProposeDeal** to **Broker 7**.
- Broker 5** sends **ProposeDeal** to **Trading Agent 1**.
- Broker 6** sends **ProposeDeal** to **Trading Agent 2**.
- Broker 7** sends **ProposeDeal** to **Trading Agent 3**.
- Broker 2** sends **MarketUpdate** to **Broker 1**, **Broker 3**, **Broker 4**, and **Broker 7**.
- Broker 1** sends **MarketUpdate** to **Broker 3**, **Broker 4**, and **Broker 7**.
- Broker 3** sends **MarketUpdate** to **Broker 4** and **Broker 7**.
- Broker 4** sends **MarketUpdate** to **Broker 7**.
- Broker 7** sends **MarketUpdate** to **Trading Agent 3**.
- Broker 1** sends **UnwindDeal** to **Broker 2**, **Broker 3**, **Broker 4**, and **Broker 7**.
- Broker 2** sends **UnwindDeal** to **Broker 5** and **Broker 6**.
- Broker 3** sends **UnwindDeal** to **Broker 4**.
- Broker 4** sends **UnwindDeal** to **Broker 7**.
- Broker 5** sends **UnwindDeal** to **Trading Agent 1**.
- Broker 6** sends **UnwindDeal** to **Trading Agent 2**.
- Broker 7** sends **UnwindDeal** to **Trading Agent 3**.

Figure 6

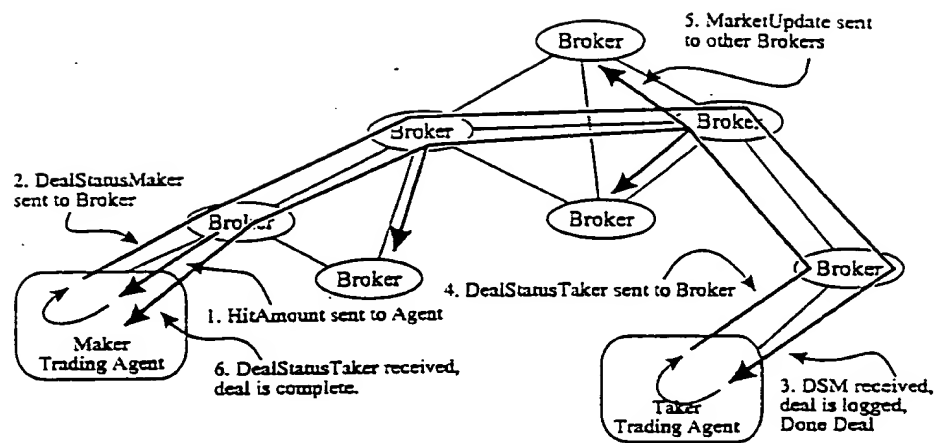


Figure 7

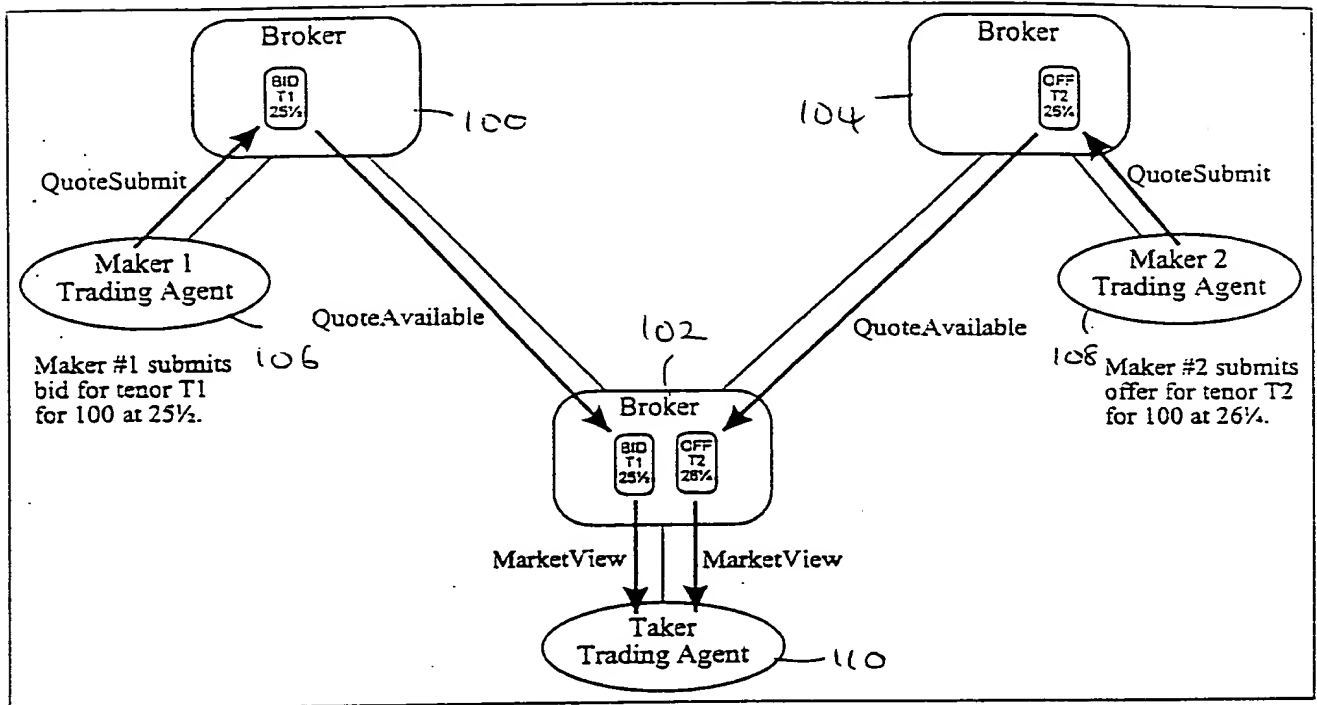


Figure 11

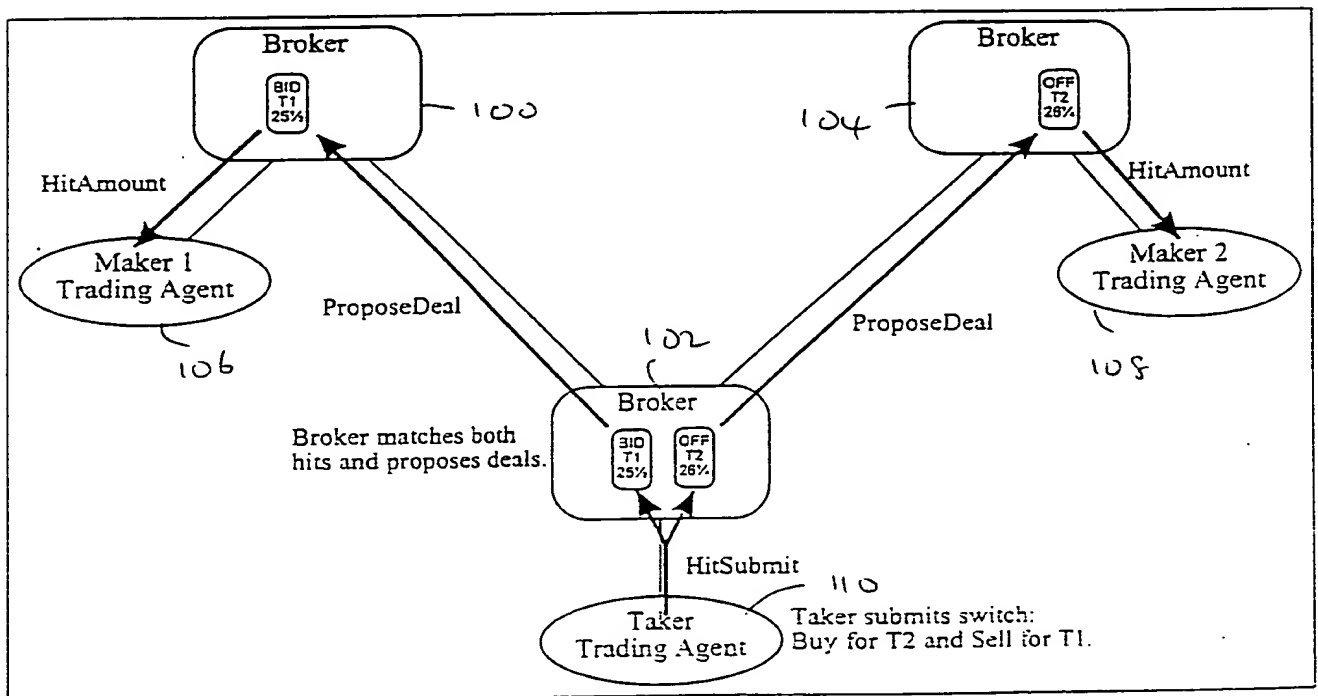


Figure 12

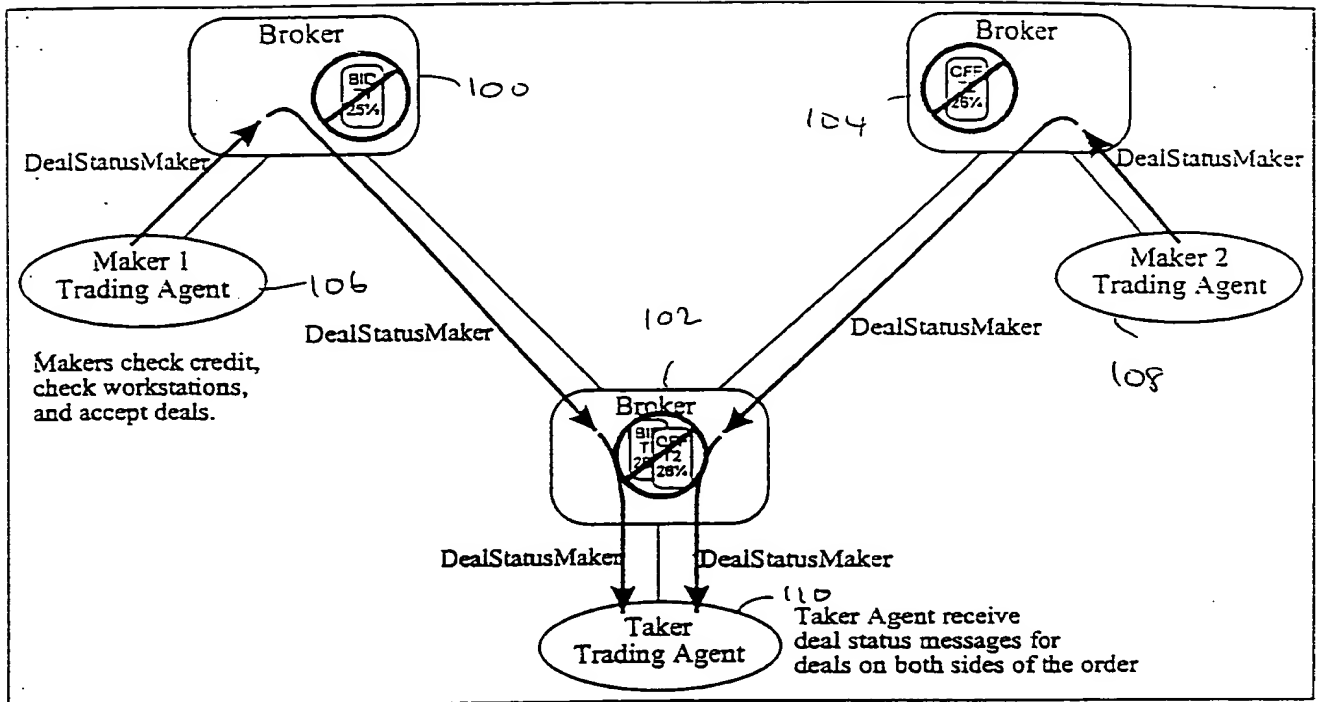


Figure 13

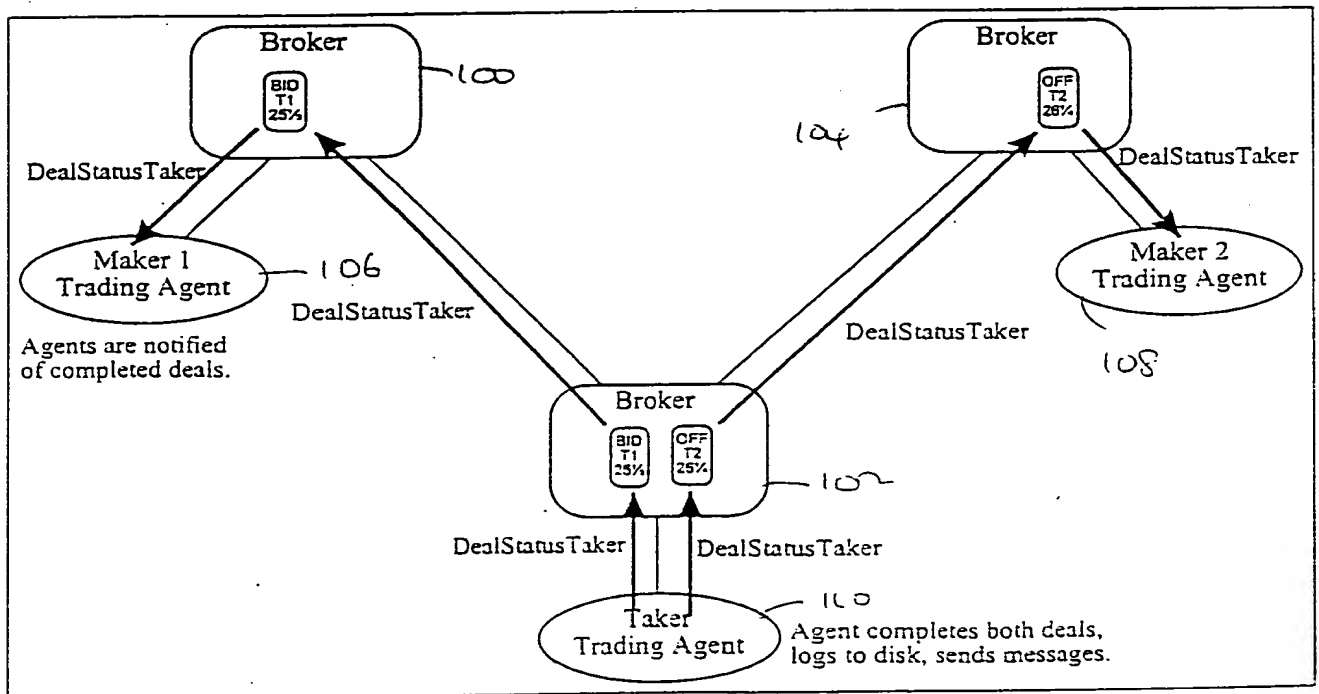


Figure 14